

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/112723 A2

(51) International Patent Classification⁷: **A61K**
(21) International Application Number:
PCT/US2004/019816
(22) International Filing Date: 21 June 2004 (21.06.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/480,089 20 June 2003 (20.06.2003) US
60/480,088 20 June 2003 (20.06.2003) US
60/513,082 21 October 2003 (21.10.2003) US

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and
(72) Inventor: AUNG-DIN, Ronald [US/US]; 7286 Frisco Lane, Sarasota, FL 34241 (US).
(74) Agents: DAVIDSON, Clifford, M. et al.; Davidson, Davidson & Kappel, LLC, 14th Floor, 485 Seventh Avenue, New York, NY 10018 (US).
(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/112723 A2

(54) Title: TROPICAL THERAPY FOR THE TREATMENT OF MIGRAINES, MUSCLE SPRAINS, MUSCLE SPASM, SPASTICITY AND RELATED CONDITIONS

(57) Abstract: The invention is directed to topical formulations and methods of treating a migraines and/or cluster headaches, muscle sprains, muscle spasms, spasticity, tension headaches, tension related migraines and related conditions associated with muscle tension and pain with a therapeutically effective amount of an ergot alkaloid, skeletal muscle relaxant, serotonin agonist, combinations thereof, pharmaceutically acceptable salt thereof, prodrugs thereof or derivative thereof.